

Transparency Market Research



Lab Automation Market - Global Industry Analysis, Size, Share, Growth, Trends and Forecast 2015 - 2023

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REPORT DESCRIPTION

Laboratory automation is the usage of technology and equipment in laboratories to raise experimental data quality, reduce lab process cycle and in diagnostics. Laboratory automation encompasses process, devices, technology and software that support automated workflow process in the laboratories and thus decrease manual steps and faults. It allows tough and faster throughput and analysis of a large number of samples. Laboratory automation applied in different areas such as drug discovery and clinical testing. Laboratory robotics is the most widely known application of laboratory automation technology. Generally, the field of automation comprises many different devices, software processes, automated laboratory instruments and methodologies used to enable, accelerate and increase the proficiency and effectiveness of laboratory scientific research in laboratories. A laboratory automation system can be either an integrated system or standalone.

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Lab automation includes both hardware and software. Hardware Automation involves total automation system where all the devices are combined and modular automation where few of the devices in the workflow are automatic. Factors contributing the growth of lab automation market includes rise in diagnosis leading to work pressure, accuracy of the results, shortage of quality lab technicians, budget constraints for laboratories, reduction in sample contamination risk, time delay, labor charge and areas such as microbiology and hematology are providing better scope for this market. The market for lab automation solutions manufacturers are expected to grow as with the introduction and adoption of forthcoming technologies such as semantic technologies, digital dispensing and microfluidic chips or merger of Lab-on-a-chip (LOC) technology with the systems. Recently, there has been a tremendous use of Microfluidic chips in advanced biological research are gaining popularity. These are used in genomics, proteomics and metabolic research. The global microfluidic chips market is developing because of their increased worldwide use. However, there are few areas, which are hampering the growth of the market, are affordability and flexibility by small players, refund policies and high cost of equipment.

North America offers the largest market share of laboratory automation process. However, Europe and Asian Pacific countries are the emerging markets. The rise in aging population leads to high diagnosis rate and large volume of test samples driving the clinical diagnostic laboratories opt for automation procedure.

The application market of lab automation is based upon Clinical Diagnostics, Genomics Solutions and Drug Discovery. According to Equipment and Software category are classified as Automated Liquid Handling, Automated

Storage & Retrieval Systems (ASRS), Microplate Readers, Standalone Robots, and Software & Informatics. Lab Automation Market, by type of automation are further divided into Total Lab Automation (TLA) and Modular automation.

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End-users of lab automation market consists of Pharmaceutical Industry, Biotechnology industry, Hospitals and private laboratories, Academic and research institutes.

Some of the key players in lab automation market are Abbott Diagnostics, Agilent Technologies (U.S), Biomérieux SA, Beckman Coulter, Inc. (Subsidiary of Danaher Corporation, U.S), Hamilton Robotics, Inc.(U.S), LabWare Inc., Perkinelmer, Inc.(U.S), Roche Holding AG, Qiagen N.V., Siemens Healthcare, Tecan Group Ltd. (Switzerland), Thermo Fisher Scientific, Inc. (U.S).

This report is a complete study of current trends in the market, industry growth drivers, and restraints. It provides market projections for the coming years. It includes analysis of recent developments in technology, Porter's five force model analysis and detailed profiles of top industry players. The report also includes a review of micro and macro factors essential for the existing market players and new entrants along with detailed value chain analysis.

About Us

Transparency Market Research (TMR) is a global market intelligence company, providing global business information reports and services. Our exclusive blend of quantitative forecasting and trends analysis provides forward-looking insight for thousands of decision makers. TMR's experienced team of Analysts, Researchers, and Consultants, use proprietary data sources and various tools and techniques to gather and analyze information.

Our data repository is continuously updated and revised by a team of research experts, so that it always reflects the latest trends and information. With a broad research and analysis capability, Transparency Market Research employs rigorous primary and secondary research techniques in developing distinctive data sets and research material for business reports.

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